USER'S GUIDE

Model #s

E09310

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TMA
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RCA

COLOR TV

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Introduction

Thank you for choosing RCA

Your television is designed for long life and superior operation. Despite its sophistication, your new TV is amazingly simple to operate because it has so many automatic features.

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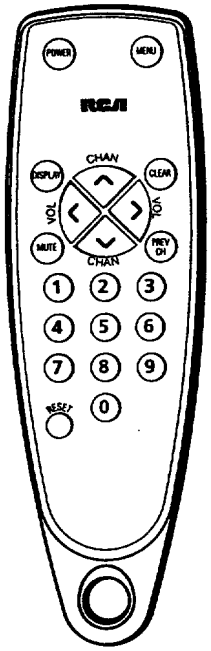
Getting Started

First-Time Operation

5. Turn on TV and place channels in memory.

Your TV is designed to place active channels into your TV's memory the first time you turn it on.



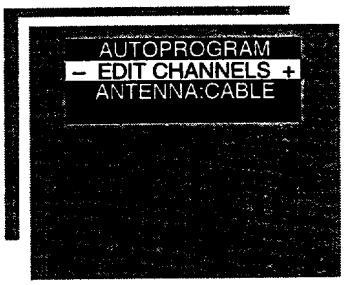
- Press *POWER* on the TV or remote to turn on the TV.
- The TV automatically cycles through all channel numbers and places active channels into the channel memory. When your TV is finished, it tunes to the lowest channel number in its channel memory.

6. Edit the channel memory.

You can add and erase channels from memory as desired.

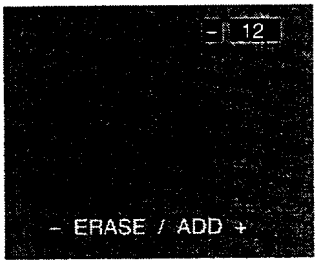
- Press *MENU* repeatedly to highlight *SETUP*. Then press ▶ to select the *SETUP* menu.

- Press *MENU* repeatedly to highlight *EDIT CHANNELS*.



Press *MENU* repeatedly to see 2nd setup menu.

- Press ▶ to select *EDIT CHANNELS*.
- Select the desired channel number by pressing the *CHAN* up or down button or by pressing two number buttons.

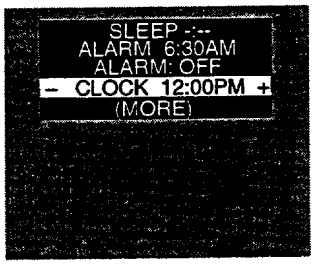


- Then press ▶ to add a channel, or press ◀ to erase a channel. *Details are on page 11.*
- Press *CLEAR* to remove the menu from the screen.

7. Set the clock.

- Press *MENU repeatedly* until *SETUP* is highlighted. Then press ▶ to select the *SETUP* menu.

- Repeatedly press *MENU* to select *CLOCK*.



- Press and hold ◀ to set the correct hour. Then press and hold ▶ to set the correct minutes.
- Press *CLEAR* to remove the menu from the screen.

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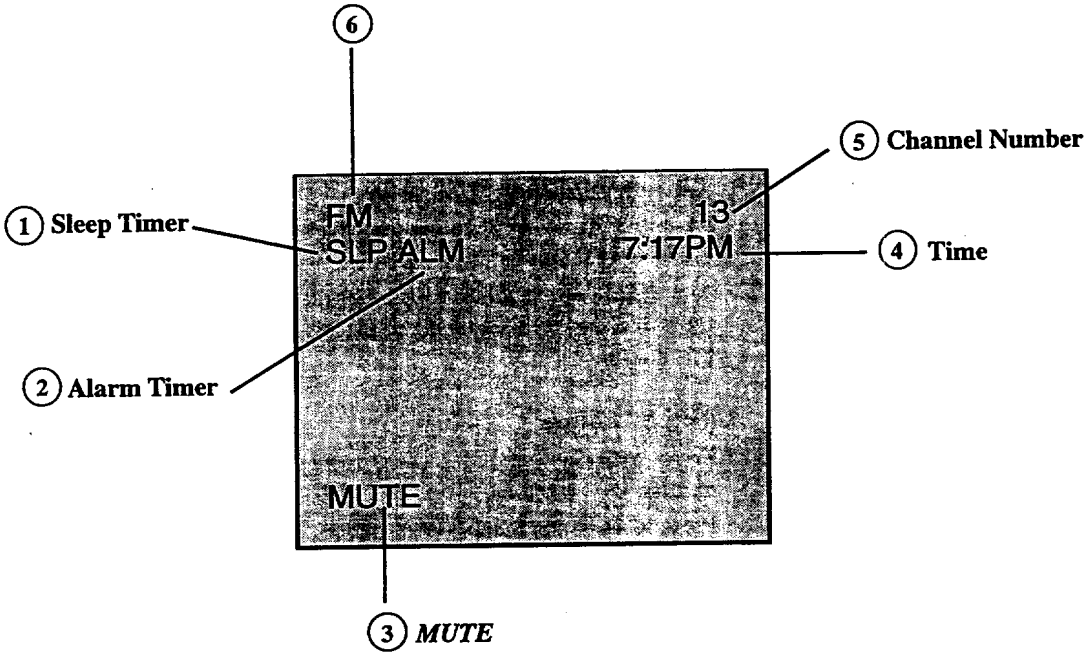
Controlling Your TV

On-Screen Displays



1 Sleep Timer
This display appears when the sleep timer has been set. *Details are on page 9.*

2 Alarm Timer
This display appears when the alarm timer has been set. *Details are on page 10.*

3 *MUTE*
This display appears when the TV's sound is muted. Press *MUTE* on the remote. *Details are on page 6.*

4 Time
This display appears after the clock is set whenever you change channels or press *DISPLAY.*

5 Channel Number
This display appears whenever you change channels or press *DISPLAY.*

6 FM Radio
This display appears whenever you change stations or press *DISPLAY* while in the FM radio mode. *Details are on page 13.*

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Operating Features

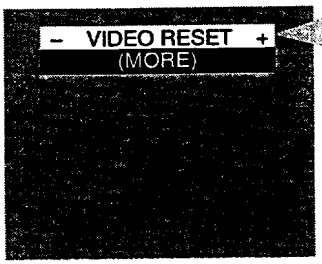
VIDEO Menu

Press *MENU* until *VIDEO* is highlighted. Then press ▶ to select the *VIDEO* menu. Press *MENU* to move down the menu and ▶ and ◀ to adjust each function.

Caution: When using TV games, computers, and similar products with your TV, keep the brightness and contrast functions at low settings. If a fixed (non-moving) pattern is left on the screen for long periods of time at a high brightness or contrast setting, the image can be permanently imprinted onto the screen. These types of imprints are not covered by your warranty because they are the result of misuse.

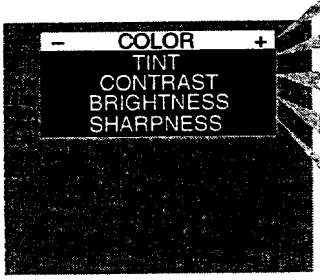
Press *MENU* to select *VIDEO*

Press ▶ for 1st *VIDEO* Menu Screen



The *VIDEO RESET* function changes all the video functions (color, tint, contrast, brightness, sharpness) back to the factory settings. Press ▶ or ◀ to reset the video functions. *RESET* appears on the TV screen momentarily while the functions are being adjusted.

Press *MENU* until the second *VIDEO* Menu appears



The *COLOR* function adjusts the amount of color in the picture. Press ▶ or ◀ to select *COLOR*, then press ▶ to increase or press ◀ to decrease color.

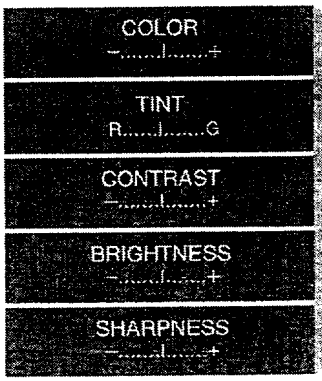
The *TINT* function adjusts the color of flesh tones. Press ▶ or ◀ to select *TINT*. Press ▶ to add more green tint or press ◀ to add more red tint.

The *CONTRAST* function adjusts the overall brightness and contrast of the picture. Press ▶ or ◀ to select *CONTRAST*. Press ▶ to increase or press ◀ to decrease contrast.

The *BRIGHTNESS* function adjusts the brightness of the dark portions of the picture. Press ▶ or ◀ to select *BRIGHTNESS*. Press ▶ to increase or press ◀ to decrease brightness.

The *SHARPNESS* function adjusts picture sharpness. Press ▶ or ◀ to select *SHARPNESS*. Press ▶ to increase or press ◀ to decrease.

Adjustment Displays



These functions are displayed individually at the bottom of the screen once they have been selected. The setting can be adjusted at that time by pressing either the ▶ or ◀ button.

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Operating Features

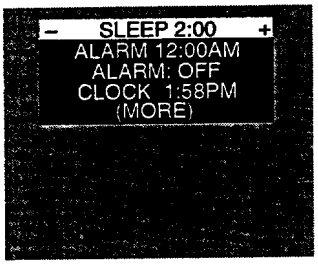
Sleep Timer Operation

By setting the Sleep Timer, you can program your TV to turn itself off after a certain period of time (up to four hours). This is useful whenever you want to watch TV for an hour or so before going to sleep.

Setting the Sleep Timer

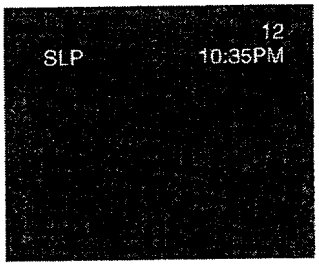
1. Press *MENU* until *SETUP* is highlighted. Then press ▶ to select the *SETUP* menu.

2. Press ▶ to select the length of time you want the TV to stay on. Each press of the ▶ button adds 30 minutes. Each press of the ◀ button subtracts 30 minutes.

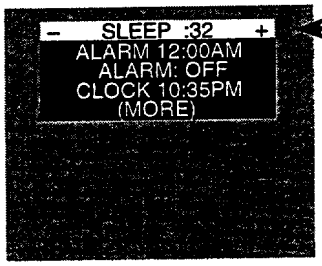


3. When finished, the display disappears from the screen in a few seconds. To make it disappear more quickly, press *CLEAR* on the remote.

4. When the Sleep Timer is turned on, the letters *SLP* appear on the screen whenever you change channels or stations or press *DISPLAY*.



5. Repeat step 1 to see the amount of time remaining before the TV shuts itself off.



32 minutes remaining

6. When the Sleep Timer counts down to one minute, the Sleep Timer display appears on the screen. When this display appears, press *CLEAR* to cancel the Sleep Timer if you want the TV to remain on.

Cancelling Sleep Timer

Press *MENU* until *SETUP* is highlighted. Then press ▶ to select the *SETUP* menu. Press the ◀ button until the screen shows "-:- -".

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Operating Features

AutoProgramming Channel Memory

The Channel Memory is the list of TV channel numbers your TV will stop on when you press the *CHAN* up or down button. You can program any list of channels into the channel memory although your TV is so automatic that you will probably never need to manually operate this feature. If you do, follow the instructions at the right.

The first time you turn on the TV, it cycles through all channels and places active channels into the channel memory. You can then add or erase channels as desired by following the instructions in the "Editing Channel Memory" section at the right.

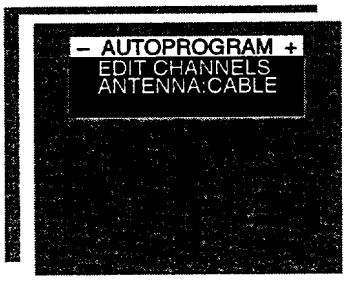
Notes:

- Signals from scrambled cable channels and some cable channels having unusual signal conditions may not be autoprogrammed.
- To prevent the TV from losing its channel memory, make sure the outlet you plug your TV into is "on" all the time. Do not plug the TV into an outlet that can be turned on and off by a wall switch. Also do not plug the TV into an outlet on the back of another device (such as a cable-TV converter box) that is turned off when the device is turned off.
- If there is an extended power failure, your TV will automatically reprogram active channels the first time you turn it on after the power failure.

1. Connect home antenna(s) or cable to your set.

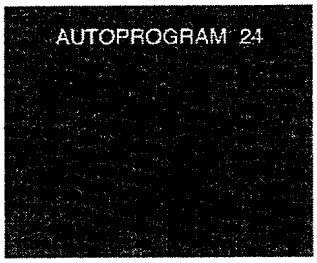
2. Press *MENU* until *SETUP* is highlighted. Press ▶ to select the *SETUP* menu.

3. Repeatedly press *MENU* until *AUTOPROGRAM* is highlighted.



2nd *SETUP* Menu

4. Press ▶ to begin AutoProgramming. The TV cycles through all channels and places only active channels into memory.



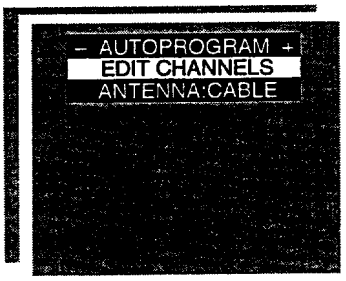
5. When the TV finishes cycling, you can check the channels in memory by pressing *CHAN* up or down.

Editing Channel Memory

Follow these instructions to erase and add channels.

1. Press *MENU* until *SETUP* is highlighted. Press ▶ to select the *SETUP* menu.

2. Repeatedly press *MENU* until *EDIT CHANNELS* is highlighted. Press ▶ to select *EDIT CHANNELS*.

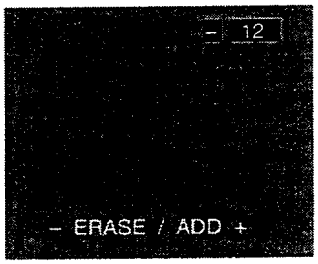


2nd *SETUP* Menu

3. Select the channel number by pressing *CHAN* up or down or two number buttons on the remote.

   When "▶" appears next to the channel number, the channel is in the channel list. Press ◀ to erase the channel.

   When "◀" appears next to the channel number, the channel is not in the channel list. Press ▶ to add the channel.



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FM Radio Operation

The FM radio is designed to work on either cable-TV or a home antenna. If your TV is connected to cable-TV, the radio will only work if your cable company broadcasts the FM radio signals. If your TV is connected to a home antenna system, you will be able to receive those channels broadcast in your area.

The radio can be used along with the sleep timer and alarm timer. Listen to music before going to sleep or wake up to music. *Details for "Setting the Sleep Timer" are on page 9 and "Setting the Alarm" are on page 10.*

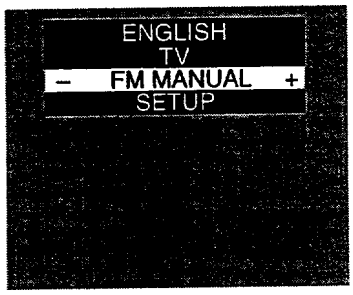
You can also program up to six of your favorite radio stations into memory so you'll be able to quickly select them. Number buttons 1 through 6 on the remote control can be programmed to automatically select favorite channels.

Operating Radio

1. Turn on the TV. Press *MENU* until *FM RADIO* is highlighted.

When *TV* appears in the menu, you are in the radio mode. When *FM RADIO* appears in the menu, you are in the TV mode.

2. Press *CHAN* up or down to select the next available station. If the station you want to tune is not strong enough for the radio to lock in on it, you can select *FM MANUAL* from the radio menu. Pressing ▶ or ◀ will step through each frequency one at a time.

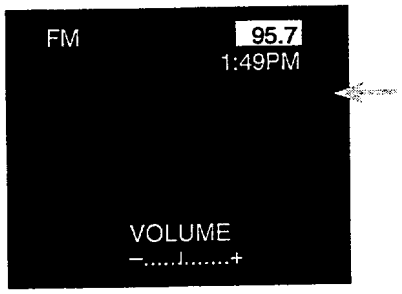


3. Press *VOLUME* ◀ or ▶ to adjust the volume.

Programming Radio Stations into Memory

1. Select the radio station you want to put into memory by pressing *CHAN* up or down. If the station cannot be locked in when you press the *CHAN* buttons, you can select *FM MANUAL* from the radio menu. Pressing ▶ or ◀ will step through each frequency one at a time.

2. When the station you want to program appears on the TV screen, first press number 0 to highlight the station number, and then press number 1.



The radio station is now assigned to number 1 and can be selected whenever you press number 1 when the TV is in the radio mode.

Number buttons 2, 3, 4, 5, and 6 can also be assigned to specific radio stations. Repeat steps 1 and 2 above to assign the numbers.

Tuning the National Weather Service (air antenna only)

The TV must be connected to an antenna (not cable-TV) and the *ANTENNA* function must be set to *AIR*. *Details for changing this function are on page 12.*

NWS is located between the highest and lowest number on the radio scale. When *NWS* cannot be located using the *CHAN* buttons, you may need to use the ▶ or ◀ button.

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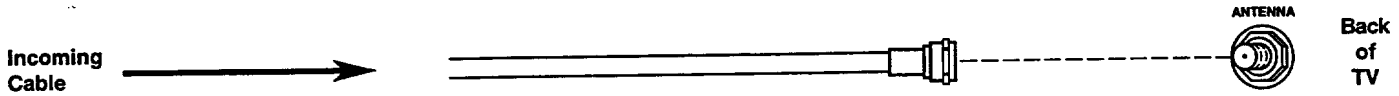
Connecting Your TV

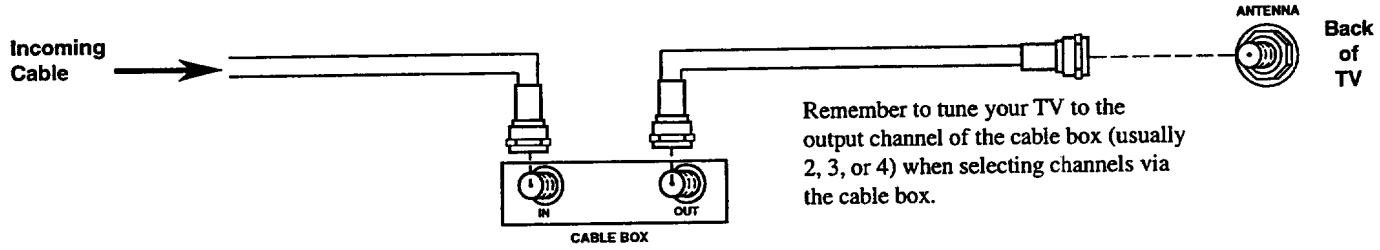
Cable-TV Connections

Follow one of these steps to connect a cable-TV system to your TV instead of a home antenna. Since cable-TV systems vary, you may wish to consult your local cable-TV company for additional information.

A Follow this diagram if your cable company does not require a cable box (no scrambled channels):

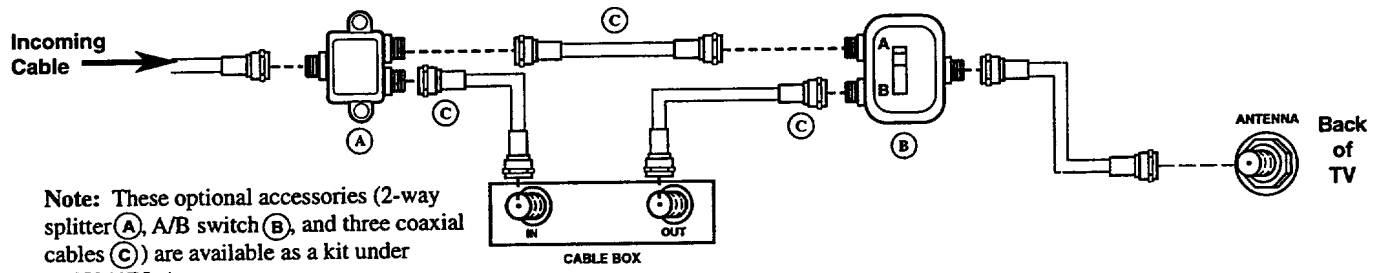


B Follow this diagram if your cable company requires a cable box that can be controlled by remote control:



Remember to tune your TV to the output channel of the cable box (usually 2, 3, or 4) when selecting channels via the cable box.

C Follow this diagram if your cable company requires a cable box that cannot be controlled by remote control:



Note: These optional accessories (2-way splitter (A), A/B switch (B), and three coaxial cables (C)) are available as a kit under #AH041BL.*

The "A" position on the A/B switch lets you select all non-scrambled channels by the TV's remote.

The "B" position allows you to select scrambled channels via the cable box. Remember to tune your TV to the output channel of the cable box (usually 2, 3, or 4) when selecting channels via the cable box.

* Optional accessories are available from most dealers or electronics supply stores.

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Connecting Your TV

Mounting Your Television

Follow these instructions if you want to mount your TV under a cabinet:

Tools Required:

- Rule or tape measure
- Phillips screwdriver
- Pencil
- Blade screwdriver
- Drill and 1/4" drill bit
- Drill Countersink Attachment (Optional)

Mounting Considerations:

- Make sure the bottom of the cabinet you select is strong enough to support a TV.
- Allow adequate room for ventilation, room to swivel, access to control knobs and space for the antenna.
- Mount TV near an AC outlet.
- Do not use area directly beneath TV for cooking.
- Before mounting, turn the set on to check reception in the area you have selected (if reception is poor try another location).

Mounting Instructions:

1. Prepare cabinet by removing items from counter and cabinet. Clean underside of cabinet where TV is to be mounted.

2. **Cut out the mounting guide and screw guide**
   - Cut out the guides on the lines indicated.
   - The size of the mounting guide and the screw hole positions are identical to the top of the mounting bracket.

3. **Position mounting guide**
   - Position the mounting guide on the underside of cabinet 3/4 inch back from the cabinet's front edge.
   - Position the mounting guide in the desired location and tape it to the bottom of the cabinet. Be sure the location is a flat surface

   Notes: Some kitchen cabinets have front overhangs as shown here. If the thickness of the overhang exceeds 3/4 inch, tape the mounting guide as close to the cabinet's front edge as possible. The farther back you mount the TV, the less you will be able to swivel it to the left and right (if cabinet is near wall).

   The TV will protrude about 3" from the cabinet when the mounting guide is positioned 3/4" back from the cabinet's front edge.

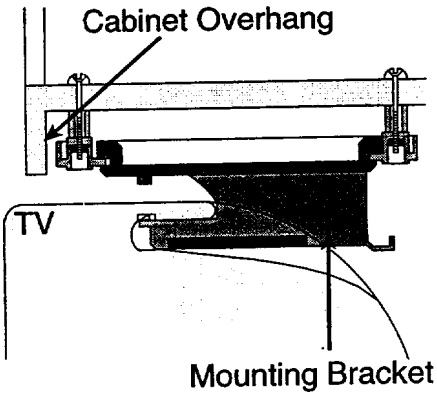
Caution to RV Owners: The mounting bracket provided is not designed for mounting in RV's or motor homes. The TV may dislodge from the bracket while the vehicle is in motion, causing damage or injury.

Important: Do not insert the bracket into the TV until the bracket is mounted under a cabinet. It may be difficult to remove. Be sure to follow the mounting instructions before sliding the TV onto the bracket.

Helpful Hints:

- You may want to start the drill holes with a nail or an awl.
- Splintering will be reduced if you place masking tape above the hole locations on the inside of the cabinet.
- Be sure to hold the drill firmly against the cabinet to reduce "walking" of the drill bit from the markings.
- If you have a countersink attachment for your drill and if you are drilling through a wood cabinet, you may wish to countersink the drilled holes from the inside of the cabinet. This will eliminate the use of washers and allow the screw heads to be flush with the floor of your cabinet. If you cannot countersink the holes, use the washers that are supplied.

Caution: Check thickness of shelf before attempting to countersink holes. Minimum thickness should be at least 1/4" (3/8" or more preferred).



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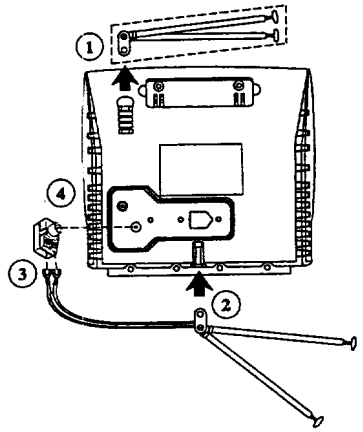
Connecting Your TV

10. (Optional) Attach Supplied Antenna to Bottom of TV



If you have attached the supplied dipole antenna to the top of your TV, you will need to attach it to the bottom of your TV before mounting it. If you have connected another type of antenna, skip to step 11

If the dipole antenna is attached to the top of the TV, you can remove it by grasping the base and lifting it up and off.

Insert the antenna base into the pocketed slot on the bottom of your TV. Press the base of the antenna into the slot until it locks in place.

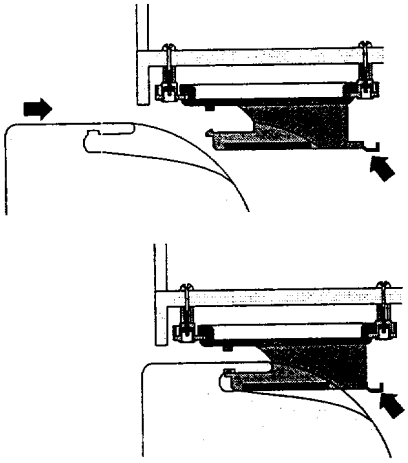
Connect the ends of the twin-lead to the antenna adapter (supplied).

Connect the antenna adapter to the round antenna connector on the back of the TV.

Later, after you have turned on the TV, adjust the length and position of the antenna for best reception.

- For viewing VHF channels 2-13, extend the rods fully.
- For viewing UHF channels 14-69, shorten the rods for best reception.
- For listening to the radio, if necessary, adjust the antenna rods for best reception.

11. Slide TV onto Bracket



- Slide the TV onto the mounting hook of the bracket and push it all the way back until the hook on the bracket locks into the back of the TV.
- Secure the TV in the bracket by sliding the locking tab on the back of the bracket into the bracket assembly. You should hear a click sound when the sliding tab is locked into position.

Warning: make sure the locking slide is pushed fully into the locked position. Failure to lock the sliding tab into position may allow the TV to fall off the bracket causing personal injury or damage to the TV. Push the sliding tab into the bracket assembly until you hear a click.

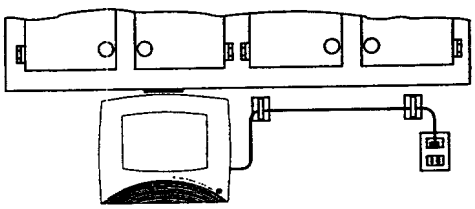
- To remove the TV, slide the locking tab out of the bracket assembly.
- Lift the TV up and gently pull forward.

Note: The TV must be slightly below the cabinet overhang when installed in the bracket. Some clearance is necessary so the TV can be easily rotated to the desired viewing angle or removed for portable use.

12. Attach AC Power Cord

- First attach the AC power cord to the 4-prong connector on the back of the TV.
- Then extend the cord and plug it into an electrical outlet.

13. Attach Cord Hooks



- You can use the cord hooks to hold the cord out of the way.
- For the most attractive appearance, place the cord hooks at the back edge of the cabinet (on or next to the wall) directly above the outlet to be used.
- To attach the cord hooks, peel off the adhesive back and attach the hooks to a clean, dry surface on underside of cabinet or back wall.
- Use the cord tie that is attached to the power cord to wrap and tie excess cord out of sight.

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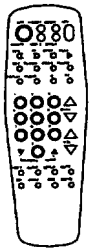
Accessories

Remote Control
This is the remote that came packed with your TV. You can use the order form to order it direct by mail if desired.

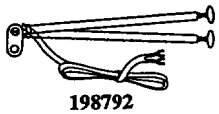
233544

Optional Remote
This remote not only controls your TV but can also control most brands of remote-controllable VCRs, cable boxes, and audio equipment.



RCU100

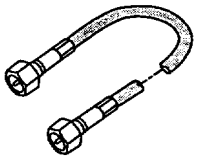
Dipole Antenna
Designed to attach to the back of your TV. Can be used for both VHF and UHF channels.



198792

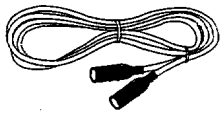
Antenna Cables

Screw-on Antenna Cable
Attaches to the round antenna connectors (called 75-ohm F-type) on the back of your VCR or TV. The ends screw onto the connectors for a secure connection.



AH037 (3-ft)

Push-on Antenna Cable
Attaches to the round antenna connectors (called 75-ohm F-type) on the back of your VCR or TV. Ends push on for a quick connection.



Gold-Tipped Cables
AH065G (6-ft)
AH066G (10-ft)

Note: All specifications and descriptions of accessories are subject to change without notice.

Accessory Order Form
Book No. 2056893B

Description	Part No.	Price	Qty	Total
Antenna Adapter	193983	$ 9.80		
Antenna Mixer	193984	$10.73		
Replacement Remote Control (CRK231C)	233544	$ 34.95		
Transformer	AH011	$ 1.90		
Cleaner/Polisher	AH035	$ 6.95		
Screw-on Antenna Cable (3-ft)	AH037	$ 3.95		
A-B Switch	AH041	$14.95		
Cable Connection Kit	AH041BL	$19.95		
Gold-Tipped Antenna Cable (6-ft)	AH065G	$ 6.99		
Gold-Tipped Antenna Cable (10-ft)	AH066G	$ 8.99		
Dipole Antenna	198792	$ 9.95		
Optional Remote Control	RCU100	$34.95		

Prices are subject to change without notice.

Total Merchandise ($10 Minimum Order) ..... $ _____

Sales Tax ..... $ _____

We are required by law to collect the appropriate sales tax for each individual state, county, and locality to which the merchandise is being sent.

Shipping, Handling, and Insurance ..... $ 5.00

Total Amount Enclosed ..... $ _____

Use VISA or MasterCard preferably. Money order or check must be in U.S. currency only. No COD or CASH.

All accessories are subject to availability.
Where applicable, we will ship a superseding model.

Detach Here

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Trouble Checks

TV Trouble	Checks and Adjustments
TV will not turn on	• Check to make sure it is plugged in. • Check the wall receptacle (or extension cord) to make sure it is "live" by plugging in something else. • Maybe batteries in remote are "dead". Try using *POWER* button on TV. • Maybe remote control was not aimed at remote sensor. • Make sure power cord is fully inserted into back of TV.
Controls don't work	• Try unplugging set for two minutes and then turning it on again. • Make sure power cord is fully inserted into back of TV.
Intermittent or no remote	• Maybe something is between the remote and the remote sensor. • Maybe batteries in remote are weak or dead. Try replacing batteries. • Maybe batteries are installed incorrectly. Try replacing batteries correctly. • Remove batteries and hold down one or more buttons for several seconds. Install the batteries and try remote.
Turns off while playing	• Sleep Timer function may be activated. • If TV turned on because of alarm, it will automatically turn off after one hour. • Electronic protection circuit may have been activated because of a power surge. Wait 30 seconds and then turn on again. • Make sure power cord is fully inserted into back of TV.
Turns on unexpectedly	• Alarm function may be set.
Blank screen	• Try another channel.
No sound, picture okay	• Maybe sound is muted. Try pressing *VOL* up button to restore sound. • If headphones are connected, sound from TV speakers will be muted.
Can't select certain channel	• Channel may not be in channel memory. Try using number buttons. • If using VCR, check to make sure *TV/VCR* switch on VCR is in correct position. • To select cable-TV channels over 99 (up to 125), press and hold number button 1 until 1-- appears on the screen. Then press the other two numbers.
No picture, no sound	• If watching VCR connected through antenna input, make sure TV is tuned to channel 3 or 4–same as *CH3/CH4* switch on VCR. Also check to make sure *TV/VCR* switch on VCR is in correct position.
Sound okay, picture poor	• Check antenna connections. • Try adjusting *SHARPNESS* function to improve weak signals.
Picture okay, sound poor	• Try another channel.
Improper color in one or more areas of the picture	• Try unplugging set for a minimum of 15 minutes and then turning it on again. For best results you should place the set in the position you will be watching it before you plug it back in.

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